



Family
Osmocem

Product Lines
• Aqua
• Building
• Infratech

Components
Single-component

Type
Osmotic one-component cement compounds

Functional Categories
• **Osmotic waterproofing**
• **Structural maintenance of dams, reservoirs, ducts and water ducts**
• **Structural maintenance of tunnels**

Appearance
Powder

OSM.0085

OSMOCEM MR

Mono-component, osmotic, hard, thick waterproofing cement

Customs Code

3824 5090

Packaging

- Bag 25 kg
- Pallet: 50 x (Bag 25 kg)

Application

- Finishing trowel
- Plastering machine
- Spatula
- Brick trowel

Certifications and legislations



EN 998-1

Specification for Mortar for Masonry - General purpose rendering/plastering mortar (GP)

General description

Mono-component, osmotic cement mortar based on hydraulic binders, modifying resins and superpozzolanic reactive fillers selected aggregates, for the preparation of adhesive mixtures that after curing, create a protective, waterproof, high-efficiency coating. OSMOCEM MR can be used for coatings, reconstructions and millimetric protections, finishing coats etc., in interventions of conservative restoration, waterproofing reinforced concrete structures, wall coverings, hydraulic works, extended exposed surfaces etc.











Dosage

Approximately 13,50 kg/m² of OSMOCEM MR for every centimetre of thickness to be implemented (approximately 1350 kg per cubic metre).

Fields of application

Waterproofing rigid structures and masonry walls underground, buried or in any case subject to water permeation: lift wells, basements, tanks, pipes, tunnels, garages, bridges, reservoirs, areas containing food, etc. in conditions of positive and negative hydrostatic thrust, provided they are sufficiently porous and absorbent and free from any waterproofing and / or water-repellent surface treatment, whether chemical (siloxanes, epoxies, polyurethanes, etc.) or natural (wax-up).

Basic features

- | | |
|--|---|
|  Max. recommended thickness:
20 mm |  Maximum diameter of aggregate:
2.0 mm |
|  Min. recommended thickness:
5 mm |  Mix with water:
14-16 % |
|  Nonflammable |  Pot-life:
50 - 60 min |
|  Shelf-life:
12 months |  Temperature of use:
+5 / +35 °C |
|  UV-resistant |  Available colours
Gray |

Technical specifications

Bonding force (UNI EN 1015-12): 2.38 N/mm²

Capillary absorption (UNI EN 1015-18): 0.14 kg•h^{0.5}/m²

Compressive strength (UNI EN 1015-11): > 50 N/mm²

Darcy impermeability: 10⁻¹⁰ cm/s

Density (UNI EN 1015-6): 2050 kg/m³



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Flexural strength (UNI EN 1015-11): > 7 N/mm²

pH: >12 _

Static elastic modulus (EN 13412): 28000 N/mm²

Water/binder ratio: < 0.45 _

Tools cleansing

- Water

Applicable on

- Concrete
- Bricks
- Mixed walls (bricks and stones)
- Stone walls
- Rock walls

Substrate preparation

Application surfaces should be clean, free of soiling, crumbling and non-adhering parts, dust, etc., water repellent treatments in general, etc. conveniently saturated with water until they reach the condition "saturated with dry surface".

Instructions for use

Pour about 2/3 of the mixing water into the mixer, add OSMOCEM MR and the remaining water; continue to mix until a homogeneous lump-free mixture is obtained. The mixing water should be about 14-16% of the weight of the bag. After mixing is completed wait a few minutes before applying.

To further improve the performance of the coating, insert a steel reinforcement mesh (wire 2 mm mesh and 5x5 cm) between layers.

Storage and preservation

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.



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Warnings, Precautions and Ecology

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge.

Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: www.azichem.com.

It is forbidden to dispose of the product and/or packaging in the environment.

It is always essential to carry out preliminary tests to verify the appropriateness of the product, depending on specific requirements.

Do not apply in case of direct exposure to sunlight and cure the protection and moist hardening.

Do not apply on little or non-porous substrates or previously coated with water-repellent treatments in general, if not after appropriate roughening by bush hammers, sanders and equipment suitable for preparatory treatments of substrates, or after appropriate treatment with suitable polymeric primers.

OSMOCEM MR is produced/distributed by



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